

FIXED INDUCTOR

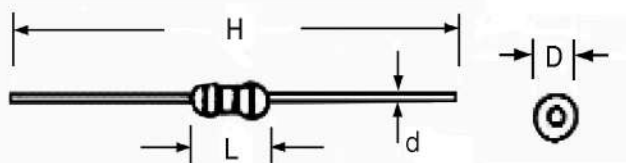
EC TYPE

CHARACTERISTICS

- Rated DC Current : It is either the inductance is 10% lower than its initial value in D.C. saturation characteristics or temperature raise becomes $\Delta T = 20^{\circ}\text{C}$ ($T_a = 20^{\circ}\text{C}$), whichever is lower.
- Operating temperature ranges : -20 to $+80^{\circ}\text{C}$.
- Storage temperature ranges : -40 to $+80^{\circ}\text{C}$.
- Dielectric with standing voltage : 250V AC r.m.s.

FEATURES

- Conformal coated inductors.
- Special magnetic core structure contributes to high Q and self-resonant frequencies (S.R.F.).
- Treated with epoxy resin coating makes it high reliability.
- Wide inductance range.
- Ideal for auto insertion.



DIMENSIONS

Unit : mm

TYPE	L (MAX.)	D (MAX.)	H	d
EC22 (0204)	4.0	2.8	62 ± 2.0	0.50 ± 0.05
EC24 (0307)	7.7	3.0	62 ± 2.0	0.55 ± 0.05
EC36 (0410)	10.5	4.0	62 ± 2.0	0.65 ± 0.05
EC38 (0412)	12.7	4.2	62 ± 2.0	0.65 ± 0.05
EC46 (0510)	12.0	5.0	62 ± 2.0	0.65 ± 0.05

RATINGS

TYPE	INDUCTANCE RANGE	RATED DC CURRENT
EC22 (0204)	0.1uH – 1.0MH	700mA – 20mA
EC24 (0307)	0.1uH – 1.0MH	700mA – 60mA
EC36 (0410)	0.1uH – 1.0MH	900mA – 100mA
EC38 (0412)	1.0uH – 10.0MH	3.0A – 30mA
EC46 (0510)	1.2MH – 33.0MH	110mA – 20mA

THE NOMINAL INDUCTANCE IS MARKED BY A COLOR CODE AS LISTED IN TABLE BELOW

COLOR	NOMINAL INDUCTANCE (uH)			
	FIRST FIGURE	SECOND FIGURE	MAGNIFICATION	TOLERANCE
Black	0		1	$\pm 20\%$
Brown	1		10	
Red	2		100	
Orange	3		1000	
Yellow	4		–	
Green	5		–	
Blue	6		–	
Purple	7		–	
Gray	8		–	
White	9		–	
Gold	–		0.1	$\pm 5\%$
Silver	–		0.01	$\pm 10\%$

TEST INSTRUMENTS

L & Q : HP 4285A Precision Q Meter
DCR : Milli-Ohm Meter
SRF : HM9461 L-SRF Meter

COLOR CODING

